

School of Manufacturing Technology
Computer Aided Drafting (CAD)
Pathway to Completion

Course Listing (Must Complete 4 Courses) :

- (100) Intro to Computer Aided-Drafting (Required)
*** *Students will use a computer graphic workstation in the application of fundamental principles and capabilities of CAD, basic drafting conventions, and operations. An in-depth study of computer-aided drafting commands, terminology, command utilization, and skill development will be provided.*
- (100) Intro to Architecture (Required)
*** *This course provides a practical approach to architectural drafting through an introduction to board and computer-aided drafting as it relates to residential and commercial architecture, specifications, and structural systems including wood, masonry, concrete, and steel.*
- (200) Architectural Design (Required)
*** *This course combines the elements and fundamentals of architectural design with the theory and application of presentation techniques. It deals with site selection, use of materials in design, spatial relationships, and aesthetics. Traditional and contemporary design, designers, processes, and historical milestones are explored. Board and computer techniques are used in illustrating student designs.*
- (300) Intermediate Computer-Aided Drafting
*** *Students will use CAD software to produce advanced two- and three-dimensional object drawings; advanced techniques of drafting, layering, and symbols associated with one or more design applications; calculations of perimeters, areas, and mass associated with the drawings.*
- (300) Special Problems (CAD)
*** *This course allows the student to gain intermediate experience in their perspective fields through projects and tasks assigned by the instructor and based on applications the student may experience as a professional. It sets the foundation for more in-depth projects that will be included in the student's future portfolio and focuses on various assignments and curriculum as determined by the program instructor. This course does not count toward preparatory status.*

End of Program Assessments:

Autodesk AutoCAD Certified User
or
Autodesk Revit Architecture Certified User